"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, N.V.

Matrix fractions and their application in solving systems of algebraic linear equations. Sbor. trud. Inst. stroi. mekh. AN URSR no.15:57-74 '51. (MIRA 11:4)
(Matrices) (Linear equations)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, N. V.

Litvinov, N. V. On the solution of an infinite system of linear differential equations of the theory of [illegible]

[illegible] the equation considered at the point [illegible] by the usual methods [illegible] author claims that the method developed in the paper is considerably shorter. It is based on a direct process of successive elimination of [illegible] Gaussian algorithm [illegible]

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

operation is carried out in the space i, i'. Since the rows of the infinite cells are identical sequences of numbers, all the numerical operations in solving the cells can be replaced by operations with arbitrarily chosen columns and rows. The actual [illegible] process of inverting the infinite cells is accomplished by a special matrix transformation in the space i, k. A detailed numerical example is included [illegible]

12

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, N.V. (Kiyev)

Study and application of influence-numbers matrix for a biharmonic operator in the solution of a problem for stresses in an infinite bar. Ukr.mat.zhur. 7 no.4:388-402 '55. (MLRA 9:3)
(Elasticity)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, N.V.

SOV/2660

PHASE I BOOK EXPLOITATION

16(1)

Vsesoyuznyy matematicheskiy s"yezd. 3rd, Moscow, 1956

Trudy, t. 4: Kratkiye soderzhaniya sektsionnykh dokladov. Doklady inostrannykh uchenykh (Transactions of the 3rd All-Union Mathematical Conference in Moscow. vol. 4: Summary of Sectional Reports. Reports of Foreign Scientists) Moscow, Izd-vo AN SSSR, 1956.
247 p. 2,200 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Matematicheskiy institut.

Tech. Ed.: G.M. Shevchenko; Editorial Board: A.A. Abramov, V.G. Boltyanskiy, A.M. Vasil'yev, B.V. Medvedev, A.D. Myshkis, S.M. Nikol'skiy, P.K. Rashevskiy, A.G. Postnikov, Yu. V. Prokhorov, K.A. Rybnikov, P.L. Ul'yanov, V.A. Uspenskiy, N.G. Chetayev, G. Ye. Shilov, and A.I. Shirshov.

PURPOSE: This book is intended for mathematicians and physicists.

COVERAGE: The book is Volume IV of the Transactions of the Third All-Union Mathematical Conference, held in June and July 1956. The book is divided into two main parts. The first part contains summaries of the papers presented by Soviet scientists at the Conference that were not included in the first two volumes. The second part contains the text of reports submitted to the editor by non-Soviet scientists. In those cases when the non-Soviet scientist did not submit a copy of his paper to the editor, the title of the paper is cited and, if the paper was printed in a previous volume, reference is made to the appropriate topics in number theory, both Soviet and non-Soviet, cover various function theory, algebra, differential and integral equations, topology, mathematical analysis, probability theory, topology, mathematics, functional mechanics and physics, computational mathematics, and the problems of mathematical logic and the foundations of mathematics, and the history of mathematics.

Litvinov, N.V. (Kiyev). On certain methods of solving large systems of difference equations of the theory of elasticity by means of matrix transformations 98

Minasyan, R.S. (Yerevan). On the construction of effective solutions of certain mixed boundary value problems of mathematical physics for polygonal regions 98

Podlovchenko, R.I. (Moscow). On the use of electronic computers in the calculation and interpretation of vibrational molecular spectra 99

Rapoport, I.M. (Kiyev). On the evaluation of eigenvalues of linear operators in Hilbert space 99

Ilin, A.F. (Leningrad). Interpolation polynomials for functions of two variables 100

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

Report presented at the 1st All-Union Congress of Theoretical and Applied Mechanics, Moscow, 27 Jan - 3 Feb '60.

168. A. P. Leiba (Dnepropetrovsk): On space buckling of columns in the elastic-plastic range.

169. V. A. Lomakin (Moscow): Thermoscreep at room temperature.

170. V. A. Lomakin (Moscow): Plasticity of metals under combined loading.

171. A. I. Lomov (Moscow): Some problems of non-stationary flow of an incompressible visco-elastic (Maxwellian) liquid.

172. A. I. Lomov, N. P. Matyar (Moscow): Some problems of unsteady flow of an incompressible visco-elastic (Maxwellian) liquid.

173. N. Ya. Lyubov (Lvov): The generalization of the Bernoulli theory of the bending bar.

174. N. Ya. Lyubov, V. V. Pasternak (Lvov): The development of circumvolute.

175. Th. R. Lyuk (Tartu): Plastic flow of circular plates under bending and pulling of compression and bending.

176. A. G. Lyubimskiy (Dnestrovsk): Torsion of an anisotropic curved bar.

177. A. D. Lyuzin (Penzitrest): Free vibrations and stability of ordinary and prestressed elastic reinforced beams.

178. A. Mamedi (Baku): Displacement of rocks due to excavation of mining space.

179. V. Mikelson (Tbilisi): On the application of metric tensor theorems to the solution of large sets of linear equations of elasticity theory.

180. G. I. Mikhin (Perm): The selection of optimal parameters for structures of equal stability consisting of plates and cartridges.

181. Ya. A. Mikhnik (Moscow): Large deflections of shallow shells of constant elastic materials.

182. Ya. B. Mikh (Yaroslavl): Method for the solution of the problem of axisymmetric state of stress in shells of revolution.

183. A. A. Mikhnovskiy (Gomel): Analysis of an orthotropic circular conical shell under an arbitrary load applied to a side.

184. A. V. Mikhnevich (Kiev): On the experimental study of strains in plates and shells.

185. S. G. Mikhlin (Leningrad): Cross strains and ruptures of high polymers.

186. M. Ya. Mikhlin (Sverdlovsk): Vibrations of bar circular cylindrical shells.

187. A. A. Mikolayev (Kiev): Some problems of combined loading of quasi-isotropic bodies.

188. A. A. Militsky (Leningrad): The influence of structural discontinuity in concrete on its strength.

189. S. G. Mikeladze (Tbilisi): Investigation of the state of stress in a space area with conical cylindrical hole under internal pressure.

190. G. F. Mishchenkov (Tbilisi): Solving the plane elastic problem of multiply connected regions by reduction to the problem of linear coupling with displacement.

191. L. I. Mizerich, Yu. L. Gershteyn (Dnepropetrovsk): The stability of a cylindrical shell in bending.

192. V. M. Mirsalimov (Moscow): Stress and strain in naturally twisted bars.

193. I. I. Mitropolskiy (Tyumenskaya): The problem of conformal transformation and plane elasticity for the exterior of an infinite number of holes.

194. Ya. A. Modzharov (Moscow): The design of finite and infinite plane in elastic media considering the effects and without adopting the hypothesis of Zimerman and Winkler.

195. A. Ye. Mokhnatkin (Sverdlovsk): Vibrations of a curved bar in an elastic medium and on elastic supports.

196. A. A. Movchan (Perm): An experimental study of basic creep laws for metals.

197. S. F. Mukhanov (Novosibirsk): On statically equivalent loadings.

198. A. Sh. Nikolaidze (Tbilisi): Contribution to the theory of plastic shells of uniform strength.

199. A. S. Nikolaidze (Perm): On the bending of a simply supported parallelogram plate.

200. E. V. Nikolayev (Moscow): Prediction of the theoretical strength of fibrous materials in homogeneous stress-state and plane stress.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, N.V [Litvinov, M.V.] (Kiyev)

Transformation of infinite inverse matrices into matrices of finite orders and its application to the study of problems in the theory of elasticity. Prykl. mekh. 6 no.3:338-343 '60. (MIRA 13:8)

1. Institut gidrologii i gidrotekhniki AN USSR.
(Elasticity) (Matrices)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, N. V., Can Tech Sci, "Investigation of certain methods of solving systems of differential equations of the theory of elasticity with the aid of matrix transformations." Kiev, 1960. (Acad Sci UkSSR, Inst of Mechanics). (KL, 3-61, 217).

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

L 27817-66 EWT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(l) BC

ACC NR: AP6013011 SOURCE CODE: UR/0410/66/000/001/0050/0055

AUTHOR: Kasperovich, A.N. (Novosibirsk); Litvinov, N.V. (Novosibirsk)

ORG: none

TITLE: The analysis of dynamic errors appearing during measurements by digital measuring devices with consecutive equilibration [Paper presented at the 7th All-Union Conference on Automatic Control and Methods of Electrical Measurements held in Novosibirsk in September 1965]

SOURCE: Avtometriya, no. 1, 1966, 50-55

TOPIC TAGS: digital converter, error prediction, automatic control system, electric measurement

ABSTRACT: A thorough investigation of closed automatic control systems containing digital measuring devices cannot be carried out without exhaustive knowledge of the dynamic properties of the digital measuring devices. Consequently, the present authors investigate theoretically and in detail the characteristics of the dynamic error of devices with consecutive equilibration. The errors are caused basically by the finite interval of time needed for the process of measurement and the change of the measured quantity occurring during this interval of time. The analysis is carried out assuming that the measured quantity varies linearly during the measurement interval. The calculations performed show that the error depends not only on the derivative of the measured quantity but also on the magnitude of the quantity proper. Orig. art. has: 13 formulas and 1 figure.

Card 1/2 UDC: 681.2.082+621.317.08

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

L 27817-66
ACC NR: AP6013011

SUB CODE: 09 / SUBM DATE: 05Oct65 / ORIG REF: 006 / OTH REF: 001

Card 2/2 PB

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

ACC NR: AP7002825 (N) SOURCE CODE: UR/0410/66/000/005/0107/0111

AUTHOR: Alekseyev, V. A. (Novosibirsk); Kasperovich, A. N. (Novosibirsk); Litvinov, N. V. (Novosibirsk)

ORG: none

TITLE: Dynamic error in analog-digital converters with a device for recording the measured voltage level

SOURCE: Avtometriya, no. 5, 1966, 107-111

TOPIC TAGS: analog digital converter, recording equipment, error minimization

ABSTRACT: This paper examines the causes of the dynamic components in the recording-device error and the connections between its parameters, conversion error, and limiting frequency of the measured voltage of sinusoidal form. The minimum attainable errors in the recording device are shown in their dependence on the parameters of the switch used in this device; gain in limiting frequency of measured voltage with use of this device is also determined. The recording device, usually consisting of a switch and a memory capacitor, works in four stages: (1) switch closes, (2) capacitor charges, (3) switch opens, and (4) capacitor charges with a larger time constant than before and the analog-digital converter measures the recorded or fixed during this interval. The paper relates the measuremental result to the moment of completion of charging. This makes it possible to leave out of consideration the delay in issuing

Card 1/2 UDC: 681.142.621

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

ACC NR: AP7002825

the result; this delay is the time taken to do the measuring and is sometimes treated as a phase error effect. The dynamic error has a number of components arising principally from incomplete charging in stages (2) and (4). The final equation $f_f/f_0 \leq \frac{\delta_{con}}{2B} \cdot \frac{r_o}{r_i + r_c} \cdot \frac{r_n}{r_o + r_n}$ where f_0 is input amplitude; f_f, recorded amplitude; δ_{con}, dynamic error of converter; B, measuring range; r_i, source voltage; r_c, closed switch resistance; r_o, open switch resistance; and r_n, converter input resistance. A concluding note is that a similar approach may also be used to analyze the dynamic error of a recording device measuring voltage of any shape. Orig. art. has: 15 formulas and 2 figures.

SUB CODE: 09,14/SUBM DATE: 31Mar66/ ORIG REF: 004/ OTH REF: 001

Card 2/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, N. YA.

Ispol'zovanie energii vykhlopa putem priamoi reaktsii. (Tekhnika vozdushnogo flota, 1943, no. 4-5, p. 28-31, diagrs.)

Title tr.: Utilization of the energy of exhaust gases by means of a direct reaction.

TL504.T4 1943

SO: Aeronautical Sciences and Aviation in the Soviet Union Library of Congress, 1955

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, N. YA., and V. M. MIKIRTICHAN.

Opyt primeneniia individual'nykh reaktivnykh vykhlopnykh patrubkov. (Tekhnika vozdushnogo flota, 1943, no.12, p. 16-21, diagrs.)

Title tr.: Experiment in the utilization of thrust obtained from individual exhaust stacks.

TL504. T4 1943

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, N.Ye., inzh.

Work practices of 24 hour shift integrated brigades. Ugol'.prom. no.3:3-7 My-Je '62. (MIRA 18:3)

1. Donetskiy nauchno-issledovatel'skiy ugol'nyy institut.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, O., kand.tekhn.nauk; PAVLIS, G., inzh.; SHIPTENKO, T., inzh.

Tools and implements for mounting large brick blocks. Stroitel' no.7:8-9 Jl '58. (MIRA 11:9)
(Building--Tools and implements)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, O., kand.tekhn.nauk; PAVLIS, G., inzh.

Gas heaters. Stroitel' no.2:19-20 F '59. (MIRA 12:5)
(Building--Cold weather conditions) (Drying apparatus)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, O. O.

42235. LITVINOV, O. O. K voprosu o metodakh obrabotki ukrainskikh granitov i labradoritov. V, sb: Nauch. Soobshch. (UKr. nauch. inzh.-tekhn. o-vo stroiteley. Kafedra stroit. Proizvodstva Kievsk. Inzh.-stroit. In-ta). Kiev, 1948, c. 43-56.

So: Letopis' Zhurnal'nykh Statey, Vol. 47, 1948.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, O. O.

Granite, labradorite and marble; architectural-decorative stones of the Ukrainian SSR. Kiev, Izd-vo Akademii arkhitektury Ukr. SSR, 1950. 110 p. map. (51-21133)

TN970.L5

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

VOL'F, I.V., kandidat tekhnicheskikh nauk; TSELUYKO, M.K.,; PUKHAL'SKIY, G.V., kandidat tekhnicheskikh nauk; KHOKHOLEV, K.I.; LITVINOV, O.O., redaktor; YANOVSKIY, V., redaktor; IOAKIMIS A., tekhnicheskiy redaktor.

[Experience in using blast furnace slag in construction] Opyt primeneniia domennykh otval'nykh shlakov v stroitel'stve. Pod red. O.O.Litvinova. Kiev, Gos.izd-vo lit-ry po stroit. i arkhitekture USSR, 1956. 109 p. (MLRA 9:6)

1.Direktor Zhdanovskogo filiala YUZHNII (for TSeluyko). 2.Direktor Dnepropetrovskogo filiala YUZHNII (for Khokholev). 3.Chlen-korrespondent Akademii arkhitektury USSR (for Litvinov).
(Slag)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, O.O., kand.tekhn.nauk

Development and introduction of plans for organizing construction according to assembly line methods. Trudy MIEI no.15:230-235 '61. (MIRA 14:12)

1. Zamestitel' direktora Nauchno-issledovatel'skogo instituta organizatsii i mekhanizatsii stroitel'nogo proizvodstva Akademii stroitel'stva i arkhitektury USSR.
(Construction industry)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, P.

First but confident steps. NTO 5 no.6:52-53 Je '63.(MIRA 16:9)

1. Zamestitel' predsedatelya soveta nauchno-tekhnicheskogo obshchestva Omskogo tresta "Stroymekhanizatsiya".

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, P.

Results of research on the protection of grapes. Zashch. rast. ot vred. i bol. 10 no.9:57 '65. (MIRA 18:11)

1. Zamestitel' direktora po nauchnoy chasti Vsesoyuznogo instituta vinodeliya i vinogradarstva "Magarach".

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

ACC NR: AP6031656 SOURCE CODE: UR/0416/66/000/009/0089/0089

AUTHOR: Litvinov, P. (Major)

ORG: none

TITLE: Refueling motor vehicles in the field

SOURCE: Tyl i snabzheniye sovetskikh vooruzhennykh sil, no. 9, 1966, 89

TOPIC TAGS: refueling, motor vehicle, armed force logistics, servicing technique, fuel truck

ABSTRACT: A field refueling station is described which can refuel 12 motor vehicles simultaneously. This 300-kg device, attached to a tank truck, pumps fuel through a hose 60 m long 5 cm in diameter, to which at 10-m intervals are attached 6 pairs of hoses 2 1/2 cm in diameter, each controlled by an AK-25 distributing cock. It takes only 25 min to assemble such a station, and the same time to dismantle it.

SUB CODE: 13, 15/ SUBM DATE: none

Card 1/1

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, F.I.

Electromagnetic instrument for indicating the quantity of processed sugar beets. Sakh.prom.29 no.8:32-33 '55. (MLRA 9:2)

1.Buryatskiy sakharnyy zavod.
(Electric apparatus and appliances)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

USSR / Cultivated Plants. Fruits, Berries. M-7

Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 58762

Author : Litvinov, P. I.
Inst : "Institute of Vini and Viticulture of RSFSR
Title : Means of Action on the Root System of Grape

Orig Pub : Vinodeliye i vinogradarstvo USSR, 1957, No 1, 27-30

Abstract : Observations conducted by the Institute of Viti- and Viniculture of RSFSR and by other scientific institutes, showed that a type of roots with filamentous ramifications, which guarantees the normal nutrition of the plant, its development and fruitbearing is formed during the first year of life of the grape. The roots then recede from the shrub and lose their capacity to form branches. In order to increase the capacity to form branches and the development of a filamentous system, the roots were cut at a depth of 0.50 m and at the

Card 1/2

USSR / Cultivated Plants. Fruits, Berries. M-7

Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 58762

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

distance of 0.80-1.0 m from the shrub. A mineral top dressing was introduced and the soil was mellowed. The experiment was repeated for two years and it gave positive results. The flow of soluble nutritious substances increased, transpiration, sprout increment and fruit bearing became higher. The yield of grapes of the Hungarian Muscat variety produced by experimental shrubs was 86.8 cwt/ha in 1954, against 75.5 cwt/ha for the control shrubs. In 1955 the yield was respectively 99.2 and 75.7 cwt/ha. -- M. R. Zlotin

Card 2/2

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

COUNTRY : USSR
CATEGORY : Cultivated Plants. Fruits. Berries. M

ABS. JOUR. : RZhBiol., No. 23 1958, No. 104800

AUTHOR : Litvinov, P. I.
INST. : Scientific Rearch Institute of Viticulture and. *)
TITLE : Regeneration of the Roots of the Grapevine.

ORIG. PUB. : Byul. nauchn-tekhn. inform. N.-i in-ta vinogradarstva i vinodeliya, 1957, No. 3, 19-31

ABSTRACT : The effect of the renewal of planting on the condition of the plants and regeneration of roots was studied in the conditions of Rostov oblast' on the varieties Muskat Vengerskiy and Pukhlyakovskiy. Renewal of the planting was done at the distance of 50 cm from the vine to the depth of 55-60 cm, in the first year in odd numbered rows and in the second , in even numbered ones. In the third and fourth years, hoeing was carried out in a similar

*)Wine Making

CARD: 1/3

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

COUNTRY :
CATEGORY : M

ABS. JOUR. : RZhBiol., No. 1958, No. 104801

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : manner at the distance of 80 cm from the vines. NPK was applied at the same time. In individual variants, irrigation was used. In other experiments, the periods of the renewal of plantings were studied, and the optium distance from the plants of the hoe blades mounted on VUM-60 was determined. Deep cultivation of the soil contributed to the improvement of water, air, and nutrition aspects of the soil and improved the condition of the plants. The pruning of the roots done during the renewal of the planting stimulated their growth and regeneration.

CARD: 2/3

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

COUNTRY :
CATEGORY :

ABS. JOUR. : RZhBiol., No. 1958, No. 104801

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : The most active new groth was observed in the second half of May - beginning of July in the soil layer of from 20 to 50-60 cm. Most intensively of all, regenerated the roots of 0.5-2 cm in diameter. The best period for carrying out deep cultivation was the early autumn (following the harvesting of the crop).--A.V. Arkhangel'skaya

CARD: 3/3

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, P. I.

USSR
CATEGORY : Cultivated Plants. Fruits. Berries. Nuts. Tea.

ABS. JOUR. : Ref Zhur -Biologiya, No. , 1959, No. 20521

AUTHOR : Litvinov, P.I.
INST. : Inst. of Viticulture and Wine Making (Novo-
TITLE : Boosting Grape Productivity by Acting on Its Root System.

ORIG. PUB.: Sad i ogorod, 1958, No.4, 69-73

ABSTRACT : At the Experimental Production farm of the Institute of Viticulture and Wine Making in Novocherkassk and at "Rekonstruktor" Sovkhoz in 1954-1958 a method was developed for forming the root system of the grape vine of various varieties at the age of 20 years, as well as having studied methods of effective regulation of the root growth and development. In the first variant of the experiment, a mechanized deep (50 - 60 cm) loosening of the

*cherkassk)

CARD: 1/3

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

COUNTRY :
CATEGORY : Cultivated Plants.

ABS. JOUR.: Ref Zhur -Biologiya, No. , 1959, No. 20 511

Author :
INST. :
TITLE :

ORIG. PUB.:

ABSTRACT : soil was applied during fall, with the simultaneous placement of fertilizers and trimming of the roots at a distance of 50-and 80 cm from the rows of bushes; in the second variant, the same methods were used, except for applying fertilizer; in the third -- the soil was worked in the usual manner on the farm. Moreover, the best kinds of trimming were determined -- 3 June, 5 September, and 28 October. Rejuvenation of the plant took

CARD : 2/3

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, P.I., Cand Agr Sci—(diss) "Methods of formation of an active root system and their effect on the growth and fruiting of grapes." Voronezh, 1958. 25 pp with ill. (Min of Higher Education USSR. Voronezh Agr Inst), 250 copies (KL,45-58, 150)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

POTAPENKO, Ya.I.; LUK'YANOV, A.D.; LAZAREVSKIY, M.A.; DYUZHEV, P.K.; ZAKHAROVA, Ye.I.; KOVALEV, A.A.; RUZAYEV, K.S.; NECHAYEV, L.N.; BAZAN'KO, A.A.; MASHINSKAYA, L.P.; ALIYEV, A.M.; MANCKHIN, P.A.; LITVINOV, P.I.; KOROTKOVA, P.I.; ZAYTSEVA, Yu.F.; GRAMOTENKO, P.M.; TAIROVA, V.N., red.; PROKOF'YEVA, L.N., tekhn.red.

[Viticulture] Vinogradarstvo. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960. 612 p. (MIRA 14:1)
(Viticulture)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

15(2) SOV/72-60-1-14/17

AUTHOR: Litvinov, P. I.

TITLE: Application of Sodium Fluosilicate to Intensify Glass Melting

PERIODICAL: Steklo i keramika, 1960, Nr 1, pp 45-47 (USSR)

ABSTRACT: In the present paper, the author describes the good results obtained at the Misheronskiy Glassworks by adding sodium fluosilicate to the batch to intensify the glass melting process. The experiment was made at the end of 1957. Quality and quantity of glass production were immediately improved as shown in the table. No higher wear of the furnace lining was observed. A high increase in production figures can be attained by a proper choice of glass-melting accelerators and an increase in melting temperature. The editors mention in this connection that a number of firms (the Works Chagodoshcha, Anzhero-Sudzhensk for Window Glass) refuse to use accelerators in spite of the fact that they would be able to improve the glass quality and their financial situation by their application. Also the Works Gor'kiy, Gusev, Irbit for Technical Glass could improve their situation in this way. There is 1 table.

Card 1/2

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SOV/72-60-1-14/17

Application of Sodium Fluosilicate to Intensify Glass Melting

ASSOCIATION: Misheronskiy stekol'nyy zavod "Pioner"
(Misheronskiy Glassworks "Pioner")

Card 2/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, P.L.; KOROTKOVA, P.I.

Let us bar the way to Phylloxera. Zashch. rast. ot vred. i bol. 9 no.6: 43-44 '64 (MIRA 17:7)

1. Zamestitel' direktora Vserossiyskogo instituta vinogradarstva i vinodeliya (for Litvinov).

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

ACCESSION NR: AP5003743 UR/0286/65/000/001/0109/0109

AUTHOR: Kitaygorodskiy, I. I.; Litvinov, P.I.

TITLE: Colored glazed ceramic material. Class 32, no. 146929

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 1, 1965, 109

TOPIC TAGS: ceramic material

ABSTRACT: This Author Certificate presents a colored glazed ceramic material based on glass thermally treated to complete crystallization. The glass contains SiO_2, Al_2O_3, C_2O, MgO, ZnO, Z_2O_2, TiO_2, Na_2O, Li_2O, F_2, and pigments Co_2O_3 and Ni_2O_3. To obtain dark blue, blue-green, yellow, or brown glazed ceramic material and its products, the following are introduced to obtain the various tonalities: dark blue- 0.1 to 4% Co_2O_3, blue-green - 0.25 to 6% Ni_2O_3, yellow- 0.26 to 8% Fe_2O_3, brown- 2 to 8% Fe_2O_3. These are in addition to the 100% chemical composition by weight of the glass containing SiO_2 -55 to 66%, Al_2O_3 -20 to 23%, CaO - 0.7 to 1%, MgO -5 to 13%, ZnO -0.8 to 1%, Z_2O_2 -1.5 to 2.5%, TiO_2 -3 to 4.5%, Na_2O -0.3 to 1.6%, Li_2O -1 to 2%, F_2 -0.8 to 1.5%.

Card 1/1 SUBMITTED: 23JUN 64

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

L 10864-66 EWP(e)/EWT(m)/EWP(j)/T/EWP(t)/EWP(b)/ETC(m) IJP(c)
ACC NR: AP5028732 JD/WW/RM/WH SOURCE CODE: UR/0363/65/001/011/2005/2008

AUTHOR: Bogdanova, G. S.; Litvinov, P. I.

ORG: State Scientific Research Institute of Glass (Gosudarstvennyy nauchno-issledovatel'skiy institut stekla)

TITLE: Relationship between structure and properties in pyroceramics of the SiO_2-Al_2O_3-MgO system

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 1, no. 11, 1965, 2005--2008

TOPIC TAGS: glass, crystallization, silica, alumina, magnesium oxide

ABSTRACT: The change of density during the crystallization of glass in the SiO_2-Al_2O_3-MgO system containing cerium and titanium compounds was studied by hydrostatic weighing. X-ray phase analysis was carried out with a URS-50I diffractometer and a Tesla-242 electron microscope. As in the case of pure cordierite compositions, crystallization goes through several stages which follow one another in a rigorous sequence dependent (at standard pressure) solely on temperature. The optimum properties of the pyroceramic formed as a result of the crystallization correspond to the completion of phase transformations and to a practically complete crystallization of cordierite. Within the range of the composition studied, the density can be used for

UDC: 546.284+546.623+546.46

Card 1/2

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L 10864-66

ACC NR: AP5028732 4

checking the quality of the pyroceramic. K. V. Zhuchenko and Yu. A. Ivanov participated in the work. Orig. art. has: 3 figures. 44 44

SUB CODE: 07,11/ SUBM DATE: 17Apr65/ ORIG REF: 010/ OTH REF: 001

HW

Card 2/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, Pavel Petrovich, inzh.; BRILLIANTOV, L.N., inzh., red.; KUBNEVA, M.M., tekhn.red.

[Making and using gray bricks and tiles in the Chinese People's Republic] Iz opyta proizvodstva i primeneniia serogo kirpicha i cherepitsy v Kitaiskoi Narodnoi Respublike. Leningrad, Leningr.dom nauchno-tekhn.propagandy, 1958. 7 p. (Informatsionno-tekhnicheskii listok, no.21. Stroitel'naia promyshlennost') (MIRA 12:8)
(China--Brickmaking) (China--Tiles, Roofing)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, Pavel Petrovich; IVANOV-SKOBLIKOV, P.V., inzh., red.; KUBNEVA, M.M., tekhn.red.

[Brick panel houses; designing and building] Doma iz kirpichnykh panelei; opyt proektirovaniia i stroitel'stva. Leningrad, 1959. 25 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Stroitel'naia promyshlennost', vyp.25). (MIRA 13:3)

(Apartment houses) (Building blocks)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, P.P.

Lining digesters with carbon tiles. Bum.prom. 34 no.2:18 F '59. (MIRA 12:4)

1. Glavnyy inzhener Kodinskogo tsellyuloznogo zavoda.
(Woodpulp industry--Equipment and supplies)
(Corrosion-resisting materials)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, P.P., inzh.

Using precast monolithic reinforced concrete for floors and roofs. Bet.i zhel.-bet. no.6:273-274 Je '60. (MIRA 13:7)

(Roofs, Concrete) (Floors, Concrete)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, Pavel Petrovich, inzh.; KOMAROVSKIY, M.F., red.; GRIGOR'YEVA, I.S., red.izd-va; BOL'SHAKOV, V.A., tekhn. red.

[New designs for pile foundations in the construction of residential and public buildings] Novye konstruktsii svaynykh fundamentov v zhilishchno-grazhdanskom stroitel'stve; stenogramma lektsii. Leningrad, Leningr. dom nauchno-tekhn. propagandy, 1961. 37 p. (MIRA 16:3)
(Foundations)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, Pavel Petrovich, inzh.; DOBRYNIN, K.K., red.; GRANOVSKAYA, G.V., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Framed-slab foundations in housing and public construction] Ramno-panel'nye fundamenty v zhilishchno-grazhdanskom stroitel'stve. Leningrad, 1962. 10 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Stroitel'naia promyshlennost', no.11) (MIRA 15:11)
(Foundations) (Precast concrete construction)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, P.P., inzh.

Processing and use of woodpulp made from screenings. Bum.prom. 38 no.4:24-25 Ap '63. (MIRA 16:5)
(Woodpulp)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

L 52122-65 EPF(c)/EPR/EPA(s)-2/EWP(j)/EWT(m)/T Pc-4/Pr-4/Ps-4/Pt-7 RM/WW

ACCESSION NR: AP5015276 UR/0286/65/000/009/0060/0061

AUTHORS: Zil'dman, A. M.; Il'yashenko, G. A.; Litvinov, R. B.; Samusenkov, N. V.; Yusim, F. M.

TITLE: A device for weaving an armature in producing reinforced pipes from plastics. Class 39, No. 170640

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 9, 1965, 60-61

TOPIC TAGS: plastic, armature, reinforced cylindrical shell, reinforced plastic

ABSTRACT: This Author Certificate presents a device for weaving an armature in producing reinforced pipes from plastics. The device is mounted on the flange of a screw press; it consists of a casing containing spools, slide bars of thread guides, and a system of cog wheels with a drive (see Fig. 1 on the Enclosure). To assure high quality of the armature weave and to increase the reliability, a revolving cam is mounted on the mandrel, and a case with a shoulder is rigidly fixed to the casing in a position concentric with the mandrel. The cam may be cylindrical and may carry an endless groove representing two open parallel ducts with an intersection. The thrust bearings of the thread guide slide block enter these ducts. The shoulder of the case may have radial openings equal in length to the longitudinal threads, while

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ACCESSION NR: AP5015276

the end surface of the shoulder carries a revolving cog wheel with a cutout. This cog wheel supports a spool for the transverse threads. To provide an uninterrupted revolving motion for the transverse thread spool, the case carries a revolving sprocket connected to the cog wheel by two idler cog wheel blocks placed in the casing along an arc whose angle is larger than the angle of the opening in the cog wheel for feeding the transverse thread. To assure an uninterrupted feeding of the longitudinal thread, the angle of the opening in the transverse thread cog wheel is made larger than the arc angle in the duct crossing on the cam. Orig. art. has: 1 figure.

ASSOCIATION: Spetsial'noye konstruktorskoye byuro No. 3 (Special Construction Bureau No. 3)

SUBMITTED: 25Oct63 ENCL: 01 SUB CODE: IE

NO REF SOV: 000 OTHER: 000

Card 2/3

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

L 52122-65
ACCESSION NR: AP5015276 ENCLOSURE: 01

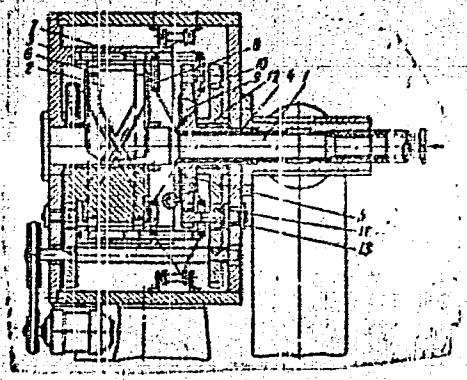

Fig. 1. 1- supports; 2- revolving cam; 3- casing; 4- case; 5- shoulder; 6- thrust bearings; 7- slide blocks; 8- thread guides; 9- radial opening; 10- cog wheel with a cutout; 11- spool; 12- sprocket; 13- cog wheel blocks

Card 3/3

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

BARAN, A.A. [Baran, O.O.]; YEREMENKO, B.V. [IEremenko, B.V.];
LITVINOV, R.O. [Litvinov, R.O.]

Distribution of adsorbed impurities on the surface of silicon p - n-junctions. Ukr. fiz. zhur. 10 no.1:111-113 Ja '65. (MIRA 18:4)

1. Institut poluprovodnikov AN UkrSSR, Kiyev.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LYASHENKO, V.I.; LITVINOV, R.O.

Changes in the electric conductivity of germanium subjected to external electric fields. Ukr. fiz. zhur. 1 no.2:143-150 Ap-Je '56. (MIRA 9:11)

1. Institut fiziki Akademii nauk URSR.
(Germanium--Electric properties)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, R.O.

26599 S/185/60/005/003/014/020
D274/D303

9,4300

AUTHORS: Koshel', O.M., Lytvynov, R.O. and Frolov, O.S.

TITLE: The effect of water vapor on the properties of germanium triodes

PERIODICAL: Ukrayins'kyy fizychnyy zhurnal, v. 5, no. 3, 1960, 417-418

TEXT: Effects are described which were observed during the study of creepage of the reverse current in p-n junctions of germanium triodes which were protected from the surrounding medium, in the presence of water vapor. The reverse collector-current was investigated after the application of a displacement voltage of 0.25 - 3 v. The frequency dependence was investigated of the equivalent capacitance C_e and the dynamic resistance R_e of the collector p-n transition in the 20 cy - 150 kc range. The measured signal did not exceed 20 - 30 millivolt. First, experiments were conducted in a vacuum of approximately $5 \cdot 10^{-6}$ mm Hg. In that case practically

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no change in the current was observed after applying the voltage. Then the current was investigated in the presence of water vapor. Creepage of the current was observed, i.e. during 30 to 60 minutes, the current changed by a factor of 1.5 to 4, approaching saturation. In addition, the frequency dependence of C_e and R_e was observed at low frequencies. R_e decreases with frequency and C_e decreases too. The frequency dependence of C_e is related to the displacement voltage; with increasing voltage the capacitance decreases at higher frequencies; the capacitance assumes even negative values which shows that the reactance of R_e becomes inductive. Such a frequency dependence of C_e was observed in all (5) the investigated specimens at a water vapor pressure of 20 mm Hg; it was not observed at low pressure (e.g. 1 mm Hg). At lower frequencies, the inductive character of the reactance was more pronounced. The appearance of quasi-inductivity may be due to electrochemical processes which arise in the water film, adsorbed at the p-n junction surface, or to the possible injection of minority carriers into the contact germanium-electrolyte. It is know that injection can be

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

accompanied by the appearance of an inductive component in the impedance of p-n junctions. There are 2 figures and 4 references: 2 Soviet-bloc and 2 non-Soviet-bloc. The reference to the English-language publication reads as follows: Toshio Misawa, J. Phys. Soc. Japan, 12, 882, 1957.

ASSOCIATION: Instytut fizyky AN USSR (Physics Institute AS UkrSSR)

SUBMITTED: February 20, 1960

Card 3/3

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

S/109/62/007/006/014/024
D271/D308

9,4340

AUTHORS: Litvinov, R. O. and Hsü Tung-liang

TITLE: Study of excess reverse currents and of the field effect in Si p-n junctions

PERIODICAL: Radiotekhnika i elektronika, v. 7, no. 6, 1962, 1030-1036

TEXT: The authors describe and discuss a number of experiments performed in order to gain a better understanding of the significance of water film adsorbed during the preparation of a p-n junction; ammonia was used instead of water because it can also produce a positive ion charge, but is not liquid; field effect in vacuum was used to change surface potential which causes channel conductance; for purposes of comparison samples were also subjected to water vapor. By these means various possible mechanisms could be investigated separately. Time dependence of the p-side conductance, of the reverse dark current and of the photovoltage, as affected by an external field of ± 2 kV, are shown in graphs.

Card 1/2

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

S/109/62/007/006/014/024
D271/D308

Study of excess ...

Curves of the reverse current and photovoltage in function of the external field, and voltage characteristics of the excess reverse current in vacuum are given. Slow variations of the reverse current when bias voltage is applied and an artificial 'pure' channel is available, were investigated and found to be non-existent. Ammonia adsorption causes a surface channel less pronounced than when a large positive field is applied in vacuum: a slow increase of current, up to a maximum, was observed in this case when bias was applied. Results of these and other measurements performed with water vapor present are shown in graphs. The conclusions are that slow variations of the excess current do not occur in 'clean' conditions; such variations in the presence of ammonia or water vapor are due to channel modulation by ions moving under the influence of the biasing field; the excess current greatly increases in the presence of saturated water vapor and a major part is played then by the adsorbed liquid film conductance. There are 7 figures.

SUBMITTED: October 2, 1961

Card 2/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

Litvinov, R. O.

L 41484-65 EWT(1)/EWT(m)/T/EWP(t)/EWP(b)/EWA(h) Pz-6/Pet IJP(c) JD/AT
ACCESSION NR: AP5004327 S/0185/65/010/001/0111/0113

AUTHOR: Baran, O. O.; Yeremenko, B. V.; Lytvynov, R. O.

TITLE: Distribution of adsorbed impurity on the surfaces of silicon p-n junctions

SOURCE: Ukrayins'kyy fizychnyy zhurnal, v. 10, no. 1, 1965, 111-113

TOPIC TAGS: sodium adsorption, surface phenomenon, silicon pn junction

ABSTRACT: The authors investigated the adsorption of sodium on the surface of drawn silicon p-n junctions from water and from an etchant to which tagged radioactive Na^{22} with concentration up to 2×10^{-3} -- 2×10^{-2} % was added. The concentration of the adsorbed sodium was usually proportional to the concentration of the sodium in the water and to the treatment time, but not for all samples. When the sodium concentration in the water was ~ 10^{17} -- ~ 10^{19} ions/[illegible] the average concentration adsorbed on the surface of the samples was [illegible]. Autoradiograms have shown that the distribution of the impurity on the surface was very inhomogeneous, both when water and the etchant were used. Washing in pure deionized water removed the sodium from the surface completely. When the experi-

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ment is reapeated the regions with increased concentration of the adsorbed atoms appear in different places. The concentration of the impurity in the regions with higher concentration was estimated also by using calibration autoradiograms. The results have shown that after 70 hours exposure the concentration of the sodium can exceed 10^{15} atoms/cm^2, and in the individual spots the concentration can be no less than 1--3 orders of magnitude in excess of average. These facts can possibly explain the scatter of the characteristics of p-n junctions, especially the breakdown voltage and the inverse-current relaxation, inasmuch as these parameters can be related to inhomogeneities on the surface. "The authors thank V. I. Lyashchenko for interest and for valuable advice." Orig. art. has: 2 figures.

ASSOCIATION: Instytut napivprovidnykiv AN UkrSSR, Kiev (Institute of Semiconductors, AN UkrSSR)

SUBMITTED: 30Jun64 ENCL: 00 SUB CODE: SS

NR REF SOV: 005 OTHER: 011

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LIVYY, G.V., kand. tekhn. nauk; KAZARINA, N.N., inzh.; GIL'MAN, B.A., inzh.; FASTOVETS, O.S., inzh.; MOROZYUK, N.I., inzh.; LITVINOV, Sh.I., inzh.; SAGAYDACHNYY, V.G., inzh.; BALAYEV, Ya.V., inzh.; FITSA, A.S., inzh.

Manufacture of leather for lining and accessories from the face split of DOL type pigskins. Kozh.-obuv. prom. 7 no.6: 29-32 Je '65. (MIRA 18:8)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, S.I.

Pneumatic mold-holder for making pressed products. Stek. i ker. 17 no.12:39 D '60. (MIRA 13:10)

(Glass manufacture)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, S.K.; FROLOVA, A.A.

Treatment of taeniarhynchosis with Jomesan. Med. paraz.i paraz.bol. 34 no.4:480-481 Jl-Ag '65.

(MIRA 18:12)

1. Otdel epidemiologii i profilaktiki tropicheskikh bolezney i otdel gel'mintologii Instituta meditsinskoy parazitologii i tropicheskoy meditsiny imeni Ye.I.Martsinovskogo Ministerstva zdravookhraneniya SSSR, Moskva. Submitted December 14, 1964.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

L 15773-66 EWT(d)/EWT(m)/EWP(w)/EWA(d)/EWP(v)/T/EWP(t)/EWP(k)/EWP(b)/EWP(z)/EWP(b)
ACC NR: AP6006184 EWP(1) MJW/JD/HM/EM SOURCE CODE: UR/0135/66/000/002/0026/0027

AUTHOR: Abrosimov, V. P. (Engineer); Litvinov, S. P. (Engineer); Germanov, A. V. (Engineer)

ORG: none

TITLE: Welding of thin-wall stainless-steel tubes

SOURCE: Svarochnoye proizvodstvo, no. 2, 1966, 26-27

TOPIC TAGS: welding, stainless steel tube, tube welding, spiral joint tube, welded tube

ABSTRACT: A unit for automatic welding of thin-wall Kh18N10T [AISI-321] steel tubes with a spiral joint has been developed and put into operation at an unidentified plant. The strip is first tightly coiled on a drum and the coil is faced on both ends in a lathe to make the strip uniformly wide along the whole length. This operation reduced the width deviations to a maximum of 0.07 to 0.08 mm. From machined strip 400 mm wide and 0.8 mm thick, tubes 110 or 142 mm in diameter were welded with an automatic argon-shielded arc. The cost of the tubes welded by the new method is claimed to be but a small fraction of the cost of

Card 1/2 UDC: 621.791.754:546.293:621.3.062:669.15-194

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

L 15773-66

ACC NR: AP6006184

seamless tubes of the same size. When lighter strip, 0.4—0.5 mm thick, is used the edges should be flanged. This is done by a flanging attachment containing two flanging rolls which also serve as strip guides. Orig. art. has: 3 figures.

[AZ]

SUB CODE: 13/ SUBM DATE: none/ ATD PRESS: 4200

Card 2/2 mjs

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, S. V.

PA 9T30

USSR/Radio, Amateur Feb 1947

"Short-wave--Contests and Tests in 1947," S. V. Litvinov, 1 p

"Radio" Vol XX, No 2

Contests and tests to stimulate interest in short-wave and radio clubs of Osoaviakhim (Latvia).

9T30

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, S.

"The Country's Radio Champion," Za Oboronu, 14, No. 5, 1948.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, S.

"How to Become a Short-Wave Radio Operator," No. 4, 1949.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, S.

20710. Litvinov, S. Kak stat' Korotkovolnovikom [Stat'ya 2]. Radio, 1949, No. 6, s. 28-29 - [Stat'ya 1]: No. 4

SO: LETOPIS ZHURNAL STATEY - Vol. 28, Moskva, 1949

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, S.

29217 Kak stat' Korotovolnovikom. Radio, 1949, No 9, s. 42-43

So: Letopsi' Zhurnal'nykh Statey, Vol. 39, Moskva, 1949

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, S. PA 157T90

USSR/Radio - Radio Training Dec 49
DOSARM

"In the New School Year," S. Litvinov, Deputy Chief, Cen Radio Club, 4 pp

"Radio" No 12

Describes activities and installations of Cen Radio Club of DOSARM. Reviews some of its accomplishments in past 3 years of its existence, i.e., training numerous radio specialists, giving popular lectures, showing films on radio technology, arranging sessions for televiewers, etc. Includes nine photographs.

[redacted] 157T90

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, S.

Sel'skii radiokruzhok. [Rural radio club]. V pomoshch organizatoru i rukovoditeliu sel'skogo radiokruzhka. Moskva, Gos. izd-vo kul'turnoprosvetitel'noi lit-ry, 1950. 53 p. illus. Bibliography: p. 53-[54].

DLC: TK6548.R9L5

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress, Reference Department, Washington, 1952, Unclassified.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, S.

Celebrating liberation day. (Competition of Hungarian short-wave operators). Radio no.6:23 Je '53. (MLRA 6:6)
(Hungary--Radio, Short-wave--Competitions)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, S.

Master radio designer. Radio no.11:15-16 N '53. (MLRA 6:11)
(Kernoshitskii, Evgenii Pavlovich)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, S., zamestitel' nachal'nika.

Create, invent, test! Tekh.molod.21 no.9:32-33 S '53. (MLRA 6:11)
(Radio--Apparatus and supplies)
(Television--Receivers and reception)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

3374 LITVINOV, S.

Detektornyy priemnik shaposhnikova. M. izd-vo Dosaaf 1954 16 s s. ill. 20 sm (Vsesoyuz. Dobrovol'nse o-vo sodeystviya armii, aviatsii i floty. Konsul'takiya tsentr. Radiokluba 5.000 ekz Vespl Sost. ukazan v vyl. Dan (54-57568) 621.396.62

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, S.

USSR/Miscellaneous

Card 1/1

Author : Litvinov, S

Title : Girl radio operators

Periodical : Radio, 3, 6, Mar, 1954

Abstract : A brief sotry about six girls who decided to be radio operators and who succeeded in reaching their goal.

Institution : .....

Submitted : .....

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

USSR/ Electronics - Radio exhibitions

Card 1/1 Pub. 89 - 5/40

Authors : Litvinov, S.

Title : Radio equipment designed by Ukrainian amateurs

Periodical : Radio 10, page 8, Oct 1954

Abstract : In connection with the opening of a new radio-amateur club in Kiev, an exhibition of radio equpiment was opened in that city. Out of over a hundred various exhibits displayed, the measuring-instruments section attracted the greatest attention. The exhibits are described and the names of the exhibitors are given.

Institution: .....

Submitted: .....

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

GRUSHETSKIY, Vadim Fedorovich; KAMALYAGIN, Aleksandr Fedorovich; LITVINOV, Sergey Vladimirovich; GAUKHMAN, L.A., redaktor; GRIGOR'YEVA, A.I., redaktor; KARIAKINA, M.S., tekhnicheskikh redaktor

[Beginner's book for the radio amateur] Kniga nachinaiushchego radiolubitelia. Moskva, Izd-vo DOSAAF, 1956. 231 p. (MLRA 9:7)
(Radio--Amateurs' manuals)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, Sergey Vladimirovich; LEVITIN, L.Ye., red.; LARIONOV, G.Ye., tekhn. red.

[Radio broadcasting equipment at the Exhibition of the Achievements of the National Economy of the U.S.S.R.; exposition of 1960]Radioveshchatel'naia apparatura na VDNKh; ekspozitsiia 1960 g. Moskva, Gosenergoizdat, 1961. 71 p. (Massovaia radiobiblioteka, no.402) (MIRA 15:11)
(Radio--Exhibitions) (Moscow--Exhibitions)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, S.V.;SMIRNOVA, Ye.V., red.;MAYOROV, V.V., tekhn. red.

[Radio broadcasting and electroacoustical apparatus]
Radioveshchatel'naia i elektroakusticheskaia apparatura;
prospekt-katalog. Moskva, 1962. 42 p. (MIRA 16:6)

1. Moscow. Vystavka dostizheniy narodnogo khozyaystva SSSR.
(Radio--Equipment and supplies)
(Magnetic recorders and recording)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

VANYUSHIN, N.M., red.; ZDANKOVICH, N.A., red.; KUCHERSKIY, L.V., red.; LITVINOV, S.V., red.; MUKHIN, I.A., red.; ROZOV, B.V., red.; SOSHKIN, I.M., red.; PONOMAREVA, V.P., red.; NEUDAKINA, N.G., tekhn.red.

[Kizel Coal Basin] Kizelovskii kamennougol'nyi bassein. Perm', Permskoe knizhnoe izd-vo, 1958. 249 p. (MIRA 12:3)
(Kizel Basin--Coal mines and mining)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, S. Ya.

Litvinov, S. Ia. Results of Electrical Exploration at Sea in the Region of the Peninsula of Apsheron in 1934. Biulleten Neftianoe Geofiziki, Moscow-Leningrad, vol. 2, 1936, pp. 87-99.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, S. Ya.

Litvinov, S. Ia. Electrical Prospecting in the Sea. Trudy Gosud. Soiuza Geofizicheskogo Tresta N.K. Nefti S.S.S.R., Gostoptekhizdat, Moscow-Leningrad, 1941, 85 pp. Price, 3.50 Roubles.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, S.Ya.; ARKHAROV, L.V.; KOMAROV, S.G., doktor geologo-mineralogicheskikh nauk, retsenzent; PERSHINA, Ye.G., redaktor; POLOSINA, A.S., tekhnicheskiy redaktor

[Technical geophysics] Promyslovaia geofizika. Moskva, Gos. nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry, 1954. 184 p.
(Geophysics) (MLRA 7:10)
(Petroleum geology)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, S.Ya.; KIREYEV, V.F.

Change in the thickness of the producing formation and lithofacies characteristics of Balakhan horizons in the Peschanyy offshore area. Izv.vys.ucheb.zav.; neft' i gaz 1 no.10:3-8 '58. (MIRA 12:4)

1. Azerbaydzhanskiy industrial'nyy institut imeni M.Azizbekova.
(Peschanyy Island--Petroleum geology)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

6( ), 25(5) SOV/152-59-2-26/32

AUTHORS: Litvinov, S. Ya., Sarkisov, I. K.

TITLE: On the Theory of Using Tubes as Electrical Connecting Channels (K teorii ispol'zovaniya trub kak elektricheskogo kanala svyazi)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Neft' i gaz, 1959, Nr 2, pp 99 - 105 (USSR)

ABSTRACT: At present there are to be found, both in the USSR and in foreign countries, a number of publications dealing with the question of how to form a connecting channel between the bottom of the bore hole and the surface. The description of a wireless electical connecting channel for measuring the speed of turbo-drills (Ref 1) is very interesting. Such a system would render it possible not only to determine the number of revolutions of turbo-drills but also to measure other parameters as well as to carry out complicated geophysical investigations of the bore holes in the course of drilling. In the paper under consideration the authors studied the potential over the length of the tube and determined the potential differences between the tube at the

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mouth of the well and the electrode attached at the distance l. Considering the whole system as a long line it is basically possible to determine the potential distribution along the tube. However, the electrode potential cannot be determined on the surface, since the problem of a distortion of the electric field of a point source in the presence of a conducting cylinder in the field has not yet been solved. In some cases, i.e. if the electrode is assumed to be infinitely distant, the potential difference between the points M and N can be determined if the potential is created in the points A and B. In table 1 the transmission of the signal from the bottom to the surface is shown schematically. The formula

$$\Delta U = U_N - U_M$$

has been found for the potential difference between the points M and N. U_N and U_M are determined by means of the formulas (6) and (7):

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

$$\int_0^L \frac{e^{-kx}}{x_1 - x}\,dx = e^{-kL_A}\left[\bar{E}i(kL_A) - Ei(kr_A)\right] \qquad (6)$$

$$U_{n_1} = \frac{J_0 \cdot k \cdot \rho}{4\pi(e^{kL} - e^{kL})}\left\{e^{kr_{n1}}\left[-Ei(-kr_{n_1}) + Ei(-kL_{n_1})\right] + \right.$$

$$\left. + e^{-kr_{n1}}\left[\bar{E}i(kL_{n_1}) - \bar{E}i(kr_{n_1})\right]\right\} \qquad (7)$$

The potential difference determined by formula (8) is a complicated function of parameters characterizing the tube, the bore hole, the position of the electrodes, and the rock. In a certain object all parameters with the exception of the length of the tube remain constant, or they change but inconsiderably during the drilling operation. From theoretical investigations it can, for the time being, be concluded that the use of tubes as electrical connecting

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

On the Theory of Using Tubes as Electrical Connecting Channels SOV/152-59-2-26/32

channels is possible in bore holes of 1000 to 1500 m depth in the case of low specific resistance of the surrounding rocks, and to greater depths in the case of rocks with a high specific resistance. A final opinion on the applicability of such connecting channels will only be possible after more complete experimental investigations have been carried out. There are 4 figures and 4 references, 3 of which are Soviet.

ASSOCIATION: Azerbaydzhanskiy industrial'nyy institut im. M. Azizbekova (Azerbaydzhan Industrial Institute imeni M. Azizbekov)

SUBMITTED: October 31, 1958

Card 4/4

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

MEKHTIYEV, Shafayat Farkhad ogly; MIRZADZHANZADE, Azad Khalil ogly; ALIYEV, Sabir Agakishi ogly; BAGBANLY, Edkhem Abdulla ogly; MOTYAKOV, Vladimir Ivanovich. Prinimal uchastiye ISKENDEROV, MA.; LITVINOV, S.Ya., red.; SHTEYNGEL', A.S., red. izd-va.

[Thermal conditions of oil and gas fields] Teplovoi rezhim neftianykh i gazovykh mestorozhdenii. By Sh.F.Mekhtiev i dr. Baku, Azerbaidzhanskoe gos. izd-vo neft. i nauchno-tekhn. lit-ry, 1960. 383 p. (MIRA 14:11)

(Azerbaijan--Petroleum geology)
(Azerbaijan--Gas, Natural--Geology)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, S.Ya.; SARKISOV, I.K.

Choice of a frequency range for transmitting electrical signals using pipes. Izv. vys. ucheb. zav.; neft' i gaz 4 no.9:79-82 '61. (MIRA 14:12)

1. Azerbaydzhanskiy institut nefti i khimii imeni Azizbekova.
(Boring)
(Telemetering)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, S.Ya.

Field potential having linear sources. Izv. vys. ucheb. zav.; neft' i gaz 6 no.4:115-116 '63. (MIRA 16:7)

1. Azerbaydzhanskiy institut nefti i khimii imeni Azizbekova.
(Electric prospecting)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

ABDULLAYEV, R.A.; DZHAFAROV, Kh.D.; LITVINOV, S.Ya., red.

[Theory and practice of the interpretation of geophysical observations; interpretation of the observations of seismic and electric prospecting in complex geological and geophysical conditions as revealed by studies made on the deposits of Azerbaijan] Teoriia i praktika interpretatsii geofizicheskikh nabliudenii; interpretatsiia seismorazvedochnykh i elektrorazvedochnykh nabliudenii v slozhnykh geologo-geofizicheskikh usloviiakh na primerakh mestorozhdenii Azerbaidzhana. Baku, Azerneshr, 1964. 198 p. (MIRA 17:8)

1. Kafedra geofiziki Azerbaydzhanskogo instituta nefti i khimii im. M.Azizbekova (for Abdullayev, Dzhafarov).

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

SOV/132-58-12-14/14

AUTHOR: Litvinov, T.T., Ministry of Geology and Conservation of ~~Mineral Resources of~~ USSR

TITLE On Hydroperforators (O gidroperforatorakh)

PERIODICAL: Razvedka i okhrana nedr, 1958, Nr 12, p 58 (USSR)

ABSTRACT: The development of new hydraulic and pneumatic drillers was debated at the conference of the Sektsiya tekhniki i razvedki i tekhnicheskogo vooruzheniya Ekspertno-Geologicheskogo Soveta (Section of Prospecting Technique and Technical Equipment of the Expert Geological Council) of the Ministry of Geology and Conservation of Mineral Resources which took place on 20 - 22 October 1958. The creation of the equipment for the percussion-rotary drilling is being studied by VITR, TsKB, MGiON USSR, VUGI, DGI, SGI and VNIIBT and other scientific research organizations, but no satisfactory model has as yet been produced. The conference decided to ask all interested Institutes and organizations to finish their tests by August 1959, so that serial production of these perforators can be taken up.

Card 1/1

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, V.

Equipping automatic signalers for garage gates. Avt. transp. 35 no.5: 30 My '57. (MLRA 10:6)
(Signals and signaling, Automobile)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, V., master sporta

Speed, maneuverability. Kryl. rod. 16 no.8:30 Ag '65.
(MIRA 18:8)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, V.

Results of ship testing of small-size mast-antennas. Mor.flot 19 no.8:32-33 Ag '59. (MIRA 12:11)
(Radio--Antennas)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, V.

Equipping drive-in gates with automatic signals. Avt.transp. 37 no.3:57 Mr '59. (MIRA 12:4)
(Signals and signaling)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

LITVINOV, V., leytenant

Following the call of conscience. Kryl.rod. 14 no.3:5 Mr '63.
(MIRA 16:4)
(Collective farms--Fires and fire prevention)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

PROKOF'YEV, G., starshiy tekhnik-leytenant; FEDOROVSKIY, B., kapitan; KASATKIN, B., inzh.-mayor; LITVINOV, V., inzh.-kapitan; SKLYARSKIY, O., inzh.-kapitan; VOROB'YEV, K., inzh.-podpolkovnik

Suggestions, comments. Av.i kosm. 46 no.7:81-86 Jl '63. (MIRA 16:8)

(Aeronautics)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220008-7

ACC NR: AT6036413 SOURCE CODE: UR/2536/66/000/006/0039/0052

AUTHOR: Kolachev, B. A. (Candidate of technical sciences); Livanov, V. A. (Doctor of technical sciences, Professor); Vishnyakov, D. Y. (Doctor of technical sciences, Professor); Lyasotskaya, V. S. (Engineer)

ORG: none

TITLE: Isothermal transformations in alloys of titanium with molybdenum

SOURCE: Moscow. Aviatsionnyy tekhnologicheskiy institut. Trudy, no. 66, 1966. Struktura i svoystva aviatsionnykh staley i splavov (Structure and properties of aircraft steels and alloys), 39-52

TOPIC TAGS: isothermal transformation, titanium base alloy, molybdenum, phase diagram, martensitic transformation

ABSTRACT: The literature on the isothermal transformations of alloys in the Ti-Mo system shows certain gaps. Thus, e.g. Bungardt and Ruedinger (Z. Metallkunde, 1961, no. 52(2)) specify below the initial temperature M_i of martensitic transformation only the line of the beginning and end of decomposition of the α'-phase whereas both the β-phase and the α'-phase

Card 1/3 UDC: 669.017:669.295'28

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should isothermally decompose within the temperature range between M_i and the final temperature M_f of martensitic transformation. To fill this gap the authors investigated specimens of titanium alloys containing 2, 6, 9 and 13% Mo and, on the basis of the change in hardness following isothermal treatment and according to the results of metallographic, selective radiographic and dilatometric analyses, they constructed the pertinent isothermal transformation diagrams. Isothermal treatment of the specimens was accomplished by placing them in an electric furnace at 1000°C for 1 hr and thereupon transferring them to tin, lead or salt baths (at 300, 400 and 500-800°C, respectively) and, after definite intervals of time, cooling them in water. Findings: the isothermal transformation diagram (ITD) for the alloy Ti+2% Mo is represented by two series of lines describing the beginning and end of the decomposition of the β- and α'-phases. Within the temperature range from M_i to M_f these two series of lines overlap; the same applies to the ITD for the alloy Ti+6% Mo. On the other hand, the ITD for the alloy Ti+9% Mo also includes a line of formation of the ω-phase (at temperatures of < 450°C). For the alloy Ti+13% Mo the ITD is represented by lines of the beginning and end of decomposition of the β-phase and by a line restricting the region of existence of the ω-phase. These lines overlap and the region ($\alpha+\beta+\omega$) appears on the diagram. Thus increasing the Mo content above 9% complicates the formation of the ω-phase and shifts to the right the lines of the beginning of the segregation of this phase. The isothermal decomposition of the α'-phase in Ti alloys is usually accompanied

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